WHAT IS CLAIMED:

1. A composition of matter comprising:

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wherein

 R_1 is O, NH, NR₆, S, SH, or SR₆;

R₂ is H, =O, t-butyl, phenoxy, diphenylamine, thiophenyl, phenyl, or cyclohexane;

10 R₃ is phenyl or phenoxy;

wherein R_2 and R_3 comprise a ring system selected from:

or wherein R_3 and R_4 comprise a ring system selected from:

or

R₄ is H or t-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl;

R₆ is H, CH₃, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or a pharmaceutically acceptable salt thereof.

- 2. The composition of claim 1, wherein R₁ is O, or NH;
- 10 R₂ and R₃ comprise a ring system selected from:

R₄ is H;

 R_5 is methylcyclopropane; or or a pharmaceutically acceptable salt thereof.

5 3. The composition of claim 1, wherein

R₁ is O, or NH;

 R_2 is =O;

 R_3 and R_4 comprise a ring system selected from:

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10 R₅ is methyl; or

a pharmaceutically acceptable salt thereof.

4. The composition of claim 1, wherein

 R_1 is O, or NH;

5 R_2 is H, or =O;

R₃ is phenyl or phenoxy;

R₄ is H or t-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl;

or a pharmaceutically acceptable salt thereof.

- 5. The composition of claim 4, wherein R₅ is CH₃ or methylcyclopropane.
- 6. The composition of claim 1, wherein

15 R_1 is O, or NH;

R₄ is H;

R₅ is methyl; and

R₂ and R₃ comprise:

or a pharmaceutically acceptable salt thereof.

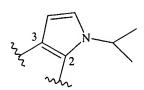
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7. The composition of claim 1, wherein

R₁ is O, or NH;

 R_2 is =O;

R₃ and R₄ comprise:



R₅ is methylcyclopropyl; or a pharmaceutically acceptable salt thereof.

- 8. A pharmaceutical composition comprising a compound according to claim 1 and a pharmaceutically acceptable carrier.
 - 9. A pharmaceutical composition comprising a compound according to claim 7 and a pharmaceutically acceptable carrier.
- 10 10. A method for treating disease mediated by the δ-opioid receptor comprising administering an effective amount of a compound of the formula:

wherein

R₁ is O, NH, NR₆, S, SH, or SR₆;

R₂ is H, =O, t-butyl, phenoxy, diphenylamine, thiophenyl, phenyl, or cyclohexane;

R₃ is phenyl or phenoxy;

or wherein R_2 and R_3 comprise a ring system selected from:

or wherein R_3 and R_4 comprise a ring system selected from:

R₄ is H or t-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl;

R₆ is H, CH₃, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or

a pharmaceutically acceptable salt thereof.

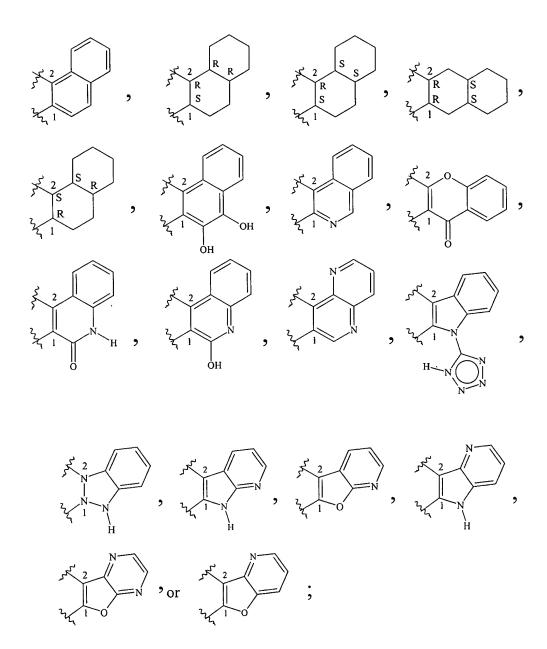
10 11. The method of claim 10 wherein:

R₁ is O, or NH;

 R_2 and R_3 comprise a ring system selected from:

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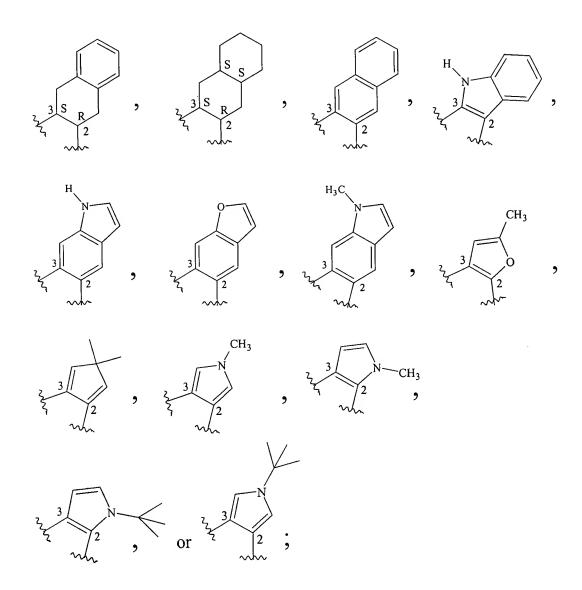


R₄ is H;

- 5 R₅ is methylcyclopropane; or a pharmaceutical acceptable salt thereof.
 - 12. The method of claim 10 wherein: R₁ is O, or NH;

 R_2 is =0;

 R_3 and R_4 comprise a ring system selected from:



- R_5 is methyl; or a pharmaceutically acceptable salt thereof.
 - 13. The method of claim 10 wherein:

 R_1 is O, or NH;

10 R_2 is H, or =0;

 R_3 is phenyl or phenoxy;

R₄ is H or t-butyl; and

R₅ is CH₃, methylcyclopropane, a linear alkyl, a branched alkyl, a substituted alkyl, or a substituted branched alkyl; or a pharmaceutically acceptable salt thereof.

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- 14. The method of claim 10, wherein R₅ is CH₃ or methylcyclopropane.
- 15. The method of claim 10, wherein R_1 is NH or O.
- 10 16. The method of claim 10, wherein R_2 is =0.
 - 17. The method of claim 10, wherein

 R_1 is O, or NH;

R₄ is H;

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R₅ is methyl; and

R₂ and R₃ comprise:

or a pharmaceutically acceptable salt thereof.

18. The method of claim 10, wherein

 R_1 is O, or NH;

 R_2 is =0;

R₃ and R₄ comprise:

R₅ is methylcyclopropyl; or a pharmaceutically acceptable salt thereof.

- The method of claim 10, wherein the disease comprises an immune disorder,
 transplant rejection, allergy, inflammation, drug or alcohol abuse, diarrhea,
 cardiovascular disease, or respiratory disease.
 - 20. The method of claim 10, wherein treating of disease comprises treating pain, protecting brain cells, or decreasing gastric secretion.

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